TSCA HEALTH & SAFETY STUDY COVER SHEET 8E14Q-0601-14941

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TSCA 8(e) Review: Effects on intrauterine development can not be completely excluded at the 150 mg/kg dose level for the marginally increased incidence of post-implantation loss, necrotic placental borders, marginally decreased placental weight, retarded ossification, marginally increased incidence of common skeletal malformations, and wavy ribs. Thus the reporting.

inseminated female Wistar rats (150 mg/kg dose group had 11 rats) were treated daily by gavage from days 6 to 19 PC with 0 and 150 mg/kg of 0.5% 20234) in isomer of AMS active (the carboxymethylcellulose doses . The fetuses were delivered by cesarean section on day 20 p.c. Investigations were performed on the general tolerance of the test compound by the females as well as on its effect on intrauterine development.

One female in the 150 mg/kg dose group (without implantation sites) showed increased water intake together with increased urination for one day during treatment, light colored feces at the end of treatment and enlarged kidneys at necropsy. Toxicologically relevant effects regarding feed intake and body weight development were not evident at the 150 mg/kg dose level, except for a marginal decrease in feed intake from days 6 to 9 p.c. which were near pretreatment values. This finding was comparable to recent historical control data. Necropsy revealed one female with an enlarged spleen. Toxicological relevance of these findings are equivocal, since only one female each was affected.

With respect to intrauterine development, litter size, fetal sex distribution, and fetal weight were not affected by treatment. Post-implantation loss was marginally increased at the 150 mg/kg level, yet there were no effects on the mean number of viable fetuses. Necrotic placental borders were only observed in the dosed group and mean placental weight was marginally reduced. Since both findings were within the range of historical control data, final evaluation was not possible due to the low number of females in a pilot study. Fetal external evaluation revealed one fetus with a domed head in the 150 mg/kg dose group; not confirmed as a malformation during the visceral evaluation. All together, 3 fetuses (in 3 litters) with common unspecific malformations were seen at the 150 mg/kg dose level: one fetus with interatrial septal defect of the heart (regarded as incidental based on the incidence in historical controls), one fetus with kinked scapula, and a one fetus with dysplastic sacral vertebral body. Also, a possible increase in wavy ribs (variation; at the upper range of historical control data of recent pilot studies) and retarded ossification of vertebral bodies were seen at the 150 mg/kg level. Since skeletal forelimb malformations and wavy ribs were observed at higher dose levels in a former pilot study, toxicological relevance can not be completely excluded for fetal findings in the 150 mg/kg group of the current study. A slight increase in the incidence of slight renal pelvis dilation was observed in the 150 mg/kg group as well. However, since this finding was not evident at higher dosages in a former pilot study, toxicological relevance of renal pelvis dilation was not assumed.

In summary, maternal findings were marginally evident at the 150 mg/kg dose level (increased water intake and urination for one day and light colored feces in one female; a marginal reduction in feed intake, and a alterations of the kidneys and spleen). Effects on intrauterine development can not be completely excluded at the 150 mg/kg dose level for marginally increased incidence of postimplantation loss, necrotic placental borders, marginally decreased placental weight, retarded ossification, marginally increased incidence of common skeletal P. 2 of 2 malformations, and wavy ribs.